AMENDMENTS TO THE CLAIMS

 (Previously Presented) An adhesive formed from a composition comprising, based on 100 weight percent of the resin portion of the composition:

about 5 to about 50 weight percent of a poly(arylene ether) resin having a number average molecular weight of about 8,000 to about 13,000;

about 50 to about 90 weight percent of a thermosetting resin selected from the group consisting of cyanate esters, polyesters, epoxy, benzoxazines, benzocyclobutene resins, and mixtures thereof;

about 0.5 to about 15 weight percent of a toughening agent selected from the group consisting of poly(vinyl butyral-co-vinyl acetate) resins, partially hydrolyzed poly(vinyl butyral-co-vinyl acetate) resins, styrenc-butadiene-styrene block copolymers, styrene-ethylene-styrene block copolymers, and styrene-ethylene-butylene-styrene block copolymers; and

- 2. (Original) The adhesive of Claim 1 wherein the poly(arylene other) resin has a number average molecular weight of about 9,000 to about 12,000.
- 3. (Original) The adhesive of Claim 1 wherein the poly(arylene ether) resin has a number average molecular weight of about 10,000 to about 11,000.

4. (Original) The adhesive of Claim 1 wherein the poly(arylene ether) resin comprises a plurality of structural units of the formula (I):

$$Q^{2} \qquad Q^{1}$$

$$Q^{2} \qquad Q^{1} \qquad (1)$$

wherein for each structural unit, each Q¹ is independently halogen, primary or secondary lower alkyl having up to about 7 carbon atoms, phenyl, haloalkyl, aminoalkyl, hydrocarbonoxy, or halohydrocarbonoxy wherein at least two carbon atoms separate the halogen and oxygen atoms; and each Q² is independently hydrogen, halogen, primary or secondary lower alkyl having up to 7 carbon atoms, phenyl, haloalkyl, hydrocarbonoxy or halohydrocarbonoxy wherein at least two carbon atoms separate the halogen and oxygen atoms.

- 5. (Original) The adhesive of Claim 4 wherein each Q^1 is an alkyl group baving from 1 to 7 carbon atoms, and each Q^2 is hydrogen.
- 6. (Original) The adhesive of Claim 4 wherein the poly(arylene ether) is a homopolymer comprising 2,6-dimethylphenylene ether units, or a random copolymer comprising 2,6-dimethylphenylene ether units in combination with 2,3,6-trimethyl-1,4-phenylene ether units.

7. (Canceled)

8. (Previously Presented) The adhesive of Claim 1, wherein the thermosetting resin is an epoxy resin comprising the condensation product of a bisphenol polyglycidyl ether and a bromine-substituted bisphenol.

- 9. (Previously Presented) The adhesive of Claim 1, wherein the thermoselting resin is an epoxy resin that is the reaction product of tetrabromobisphenol A and the diglycidyl ether of bisphenol A or bisphenol F, the reaction product having an average of at most one aliphatic hydroxy group per molecule, and the reaction product comprising about 10 to about 30 weight percent bromine as aryl substituents.
- 10. (Previously Presented) The adhesive of Claim 1, wherein the thermosetting resin comprises at least one halogen-free cpoxidized novolac.
- 11. (Withdrawn) The adhesive of Claim 1, wherein the thermosetting resin comprises a cyanate ester.
- 12. (Withdrawn) The adhesive of Claim 11, further comprising a brominated flame retardant.
- 13. (Withdrawn) The adhesive of Claim 1, wherein the thermosetting resin comprises a polyester.
- 14. (Withdrawn) The adhesive of Claim 1, wherein the thermosetting resin comprises a benzoxazine.
- 15. (Withdrawn) The adhesive of Claim 1, wherein the thermosetting resin comprises a benzocyclobutene resin.
- 16. (Original) The adhesive of Claim 1, wherein the thermosetting resin comprises an epoxy and a cyanate ester.

- brominated flame retardant selected from the group consisting of bis(2-hydroxyethyl)ether of tetrabromobisphenol A, the bis(3-aeryloyloxy-2-hydroxypropyl) ether of tetrabromobisphenol A, the bis(3-methacryloyloxy-2-hydroxypropyl) ether of tetrabromobisphenol A, the bis(3-hydroxypropyl) ether of tetrabromobisphenol A, the bis(2,3-dibromopropyl) ether of tetrabromobisphenol A, the diallyl ether of tetrabromobisphenol A, and the bis(vinylbenzyl) ether of tetrabromobisphenol A, pentabromobenzyl aerylate, dibromostyrenes, tribromostyrenes, tetrabromocyclooctanes, dibromocyclodecanes, ethylene-bis-tetrabromophthalimide, hexabromocyclodecanes, tetrabromophthalic anhydrides, brominated diphenylethers, and tris(2,4,6-tribromophenoxy-1,3,5-triazine).
- 18. (Original) The adhesive of Claim 1, wherein the thermosetting resin comprises a cyanate ester and an epoxy, the epoxy comprising the condensation product of a bisphenol polyglycidyl ether and a bromine-substituted bisphenol.
- 19. (Currently Amended) [The adhesive of Claim 1,] An adhesive formed from a composition comprising, based on 100 weight percent of the resin portion of the composition:

about 5 to about 50 weight percent of a poly(arylene ether) resin having a number average molecular weight of about 8,000 to about 13,000:

about 50 to about 90 weight percent of a thermosetting resin selected from the group consisting of cyanate esters, polyesters, epoxy, benzoxazines, benzocyclobutene resins, and mixtures thereof;

about 0.5 to about 15 weight percent of a toughening agent, wherein the toughening agent is a poly(vinyl butyral-co-vinyl acetate) resin or a partially hydrolyzed poly(vinyl butyral-co-vinyl acetate) resin; and

20. (Currently Amended) [The adhesive of Claim 19,] An adhesive formed from a composition comprising, based on 100 weight percent of the resin portion of the composition:

about 5 to about 50 weight percent of a poly(arylene other) resin having a number average molecular weight of about 8,000 to about 13,000;

about 50 to about 90 weight percent of a thermosetting resin selected from the group consisting of cyanate esters, polyesters, epoxy, benzoxazines, benzocyclobutene resins, and mixtures thereof:

[wherein the polyvinyl butyral is present at] about 1 to 15 weight percent [of the total composition solids] of a toughening agent, wherein the toughening agent is a poly(vinyl butyral-co-vinyl acetate) resin or a partially hydrolyzed poly(vinyl butyral-co-vinyl acetate) resin; and

- 21. (Previously Presented) The adhesive of Claim 1, wherein the toughening agent is styrene-butadiene-styrene block copolymer.
- 22. (Original) The adhesive of Claim 1, further comprising a plasticizer effective for poly(arylene ether) polymers.
- 23. (Original) The adhesive of Claim 22, wherein the plasticizer is resorcinol diphosphate, bisphenol A diphosphate or isopropylated phenol phosphates.
- 24. (Original) The adhesive of Claim 1, further comprising one or more of modifiers, fillers, antioxidants, UV absorbers, stabilizers, lubricants, plasticizers, pigments, dyes, colorants, anti-static agents, and flame retardants.

- 25. (Original) The adhesive of Claim 1, comprising:
 about 20 to about 40 weight percent of the poly(arylene ether) resin;
 about 52 to about 80 weight percent of the thermosetting resin;
 about 3 to about 10 weight percent of the toughening agent; and
 about 0.1 to about 7 weight percent of the cure agent.
- 26. (Original) The adhesive of Claim 1, comprising:
 about 25 to about 35 weight percent of the poly(arylene other) resin;
 about 55 to about 65 weight percent of the thermosetting resin;
 about 4 to about 8 weight percent of the toughening agent; and
 about 0.1 to about 1 weight percent of the cure agent.

27. (Previously Presented) An adhesive formed from a composition comprising, based on 100 weight percent of the resin portion of the composition:

about 5 to about 50 weight percent of a poly(arylene ether) resin, wherein the poly(arylene ether) has a number average molecular weight of about 8,000 to about 13,000, and wherein the poly(arylene ether) is the reaction product of a higher molecular weight poly(arylene ether) with a peroxide and, optionally, a phenolic compound;

about 50 to about 90 weight percent of a thermosetting resin selected from the group consisting of cyanate esters, polyesters, cpoxy, benzoxazines, benzocyclobutene resins, and mixtures thereof;

about 0.5 to about 15 weight percent of a toughening agent selected from the group consisting of poly(vinyl butyral-co-vinyl acetate) resins, partially hydrolyzed poly(vinyl butyral-co-vinyl acetate) resins, styrene-butadiene-styrene block copolymers, styrene-ethylene-styrene block copolymers, and styrene-ethylene-butylene-styrene block copolymers; and

28. (Withdrawn) A laminate comprising:

a thermoplastic substrate;

a conductive metal foil at least partially disposed on at least one side of the substrate; and

an adhesive disposed between the substrate and the metal foil, wherein the adhesive is formed from a composition comprising, based on 100 weight percent of the resin portion of the composition;

about 5 to about 50 weight percent of a poly(arylene other) resin having a number average molecular weight of about 8,000 to about 13,000;

about 50 to about 90 weight percent of a thermosetting resin; about 0.5 to about 15 weight percent of a toughening agent; and about 0.1 to about 7 weight percent of a cure agent.

29. (Withdrawn) The laminate of claim 19, wherein the poly(arylene other) resin comprises a plurality of structural units of the formula (I):

$$Q^{2} \qquad Q^{1}$$

wherein for each structural unit, each Q¹ is independently halogen, primary or secondary lower alkyl having up to about 7 carbon atoms, phenyl, haloalkyl, aminoalkyl, hydrocarbonoxy, or halohydrocarbonoxy wherein at least two carbon atoms separate the halogen and oxygen atoms; and each Q² is independently hydrogen, halogen, primary or secondary lower alkyl having up to 7 carbon atoms, phenyl, haloalkyl, hydrocarbonoxy or halohydrocarbonoxy wherein at least two carbon atoms separate the halogen and oxygen atoms.

- 30. (Withdrawn) The laminate of claim 28, wherein the thermosetting resin is selected from the group consisting of cyanate esters, polyesters, epoxy, benzoxazines, and benzocyclobutene resins.
- 31. (Withdrawn) The laminate of claim 30, wherein the epoxy is a condensation product of a bisphenol polyglycidyl ether and a bromine-substituted bisphenol.
- 32. (Withdrawn) The laminate of claim 28, wherein the toughening agent is a polyvinyl butyral or a stryene-butadiene-styrene block co-copolymer.
 - 33. (Withdrawn) A method for forming a laminate comprising:

coating a surface of a thermoplastic or metalized thermoplastic or conductive metal foil with an adhesive comprising, based on 100 weight percent of the resin portion of the composition:

about 5 to about 50 weight percent of a poly(arylene ether) resin having a number average molecular weight of about 8,000 to about 13,000;

about 50 to about 90 weight percent of a thermosetting resin;
about 0.5 to about 15 weight percent of a toughening agent; and
about 0.1 to about 7 weight percent of a cure agent; and
applying the adhesive against a first surface of a thermoplastic substrate.

34. (Withdrawn) The method of claim 33, further comprising partially curing the adhesive prior to applying the adhesive against the substrate.

35. (Withdrawn) A method for forming an article, comprising:

coating a surface of a thermoplastic substrate with an adhesive comprising, based on 100 weight percent of the resin portion of the composition:

about 5 to about 50 weight percent of a poly(arylene other) resin having a number average molecular weight of about 8,000 to about 13,000;

about 50 to about 90 weight percent of a thermosetting resin; about 0.5 to about 15 weight percent of a toughening agent; about 0.1 to about 7 weight percent of a cure agent; and

applying the adhesive against a surface of an adherend.

- 36. (Canceled)
- 37. (Currently Amended) [The adhesive of Claim 1,] An adhesive formed from a composition comprising, based on 100 weight percent of the resin portion of the composition:

about 5 to about 50 weight percent of a poly(arylene ether) resin having a number average molecular weight of about 8,000 to about 13,000;

about 50 to about 90 weight percent of a thermosetting resin selected from the group consisting of cyanate esters, polyesters, epoxy, benzoxazines, benzocyclobutene resins, and mixtures thereof;

about 0.5 to about 15 weight percent of a toughening agent comprising [wherein the toughening agent comprises] poly(vinyl butyral-co-polyvinyl alcohol-co-polyvinyl acetate)[.]; and